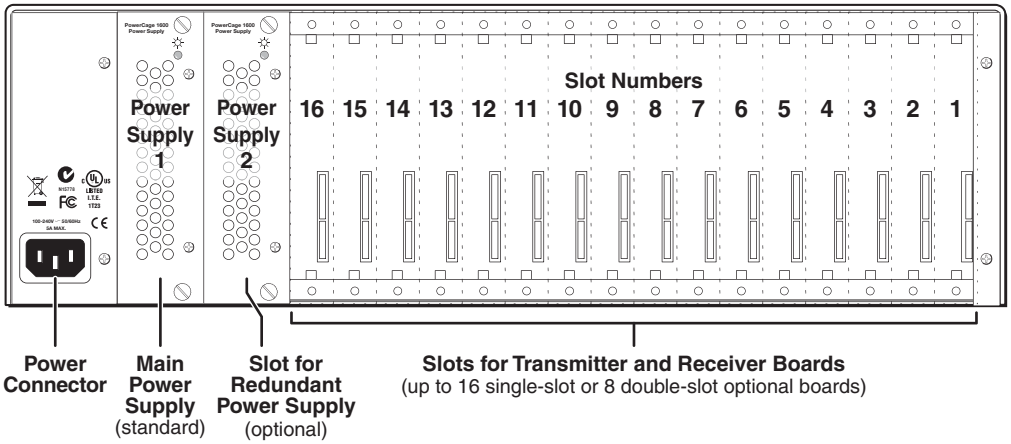
# PowerCage 1600 Enclosure • Setup Guide

The Extron® PowerCage 1600 is a rack-mountable, 16-slot enclosure with vents, fans, an integrated power supply, and optional redundant power supply that supports PowerCage transmitter and receiver boards. PowerCage fiber optic (FOX) boards and PowerCage twisted pair (MTP) boards are mounted within the PowerCage Enclosure and can be used in any combination. Each optional board operates independently of the others, creating an integrated system of individual transmitters and receivers, not a matrixed system.

**IMPORTANT:**
Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

**Rear Panel**




**NOTES:** The front panel board status LED numbers correspond to the slot numbers.

Cover all empty board slots; **DO NOT** leave them open. Securely fasten the retaining screws for boards and blank panels.

Heed the following safety information when installing or servicing the PowerCage system:

**CAUTION:** The PowerCage uses double pole/neutral fusing. Power must be disconnected before servicing internal components. Do not leave empty board slots open or uncovered while the unit is powered on.

## Installation

### Step 1: Install the redundant power supply and transmitter and receiver boards.

**Refer to the model-specific guide for each PowerCage transmitter and receiver board you are installing.** Some boards have switches that must be set before installation. The guides describe the features of each board and how to set up and cable it.

**NOTES:** The boards are hot-swappable; they can be installed or removed without turning off or disconnecting the power to the PowerCage Enclosure. Use ESD precautions when installing a board to avoid damaging it. Keep the board in the anti-static bag until it is needed. Use proper grounding techniques during installation.

**a.** Remove as many blank plates or previously installed boards from the rear of the PowerCage Enclosure as necessary for the number of new boards to be installed. Save the screws for use in step 3.

**b.** Hold the board with the signal connectors towards you and the LED at the top, and align the top and bottom grooves of the board with the slide posts in the selected enclosure slot. See the figure at right.

**c.** Carefully slide the board into the slot, aligning the two tabs on the lower front end of the board with the matching ports in the enclosure. Push the board firmly into place. Tighten the screws to secure the board in place.

**d.** Repeat steps **b** and **c** for all boards needing installation.

**NOTE:** Use a tool to fully tighten the screws after initial installation and subsequent removal and replacement of the boards.

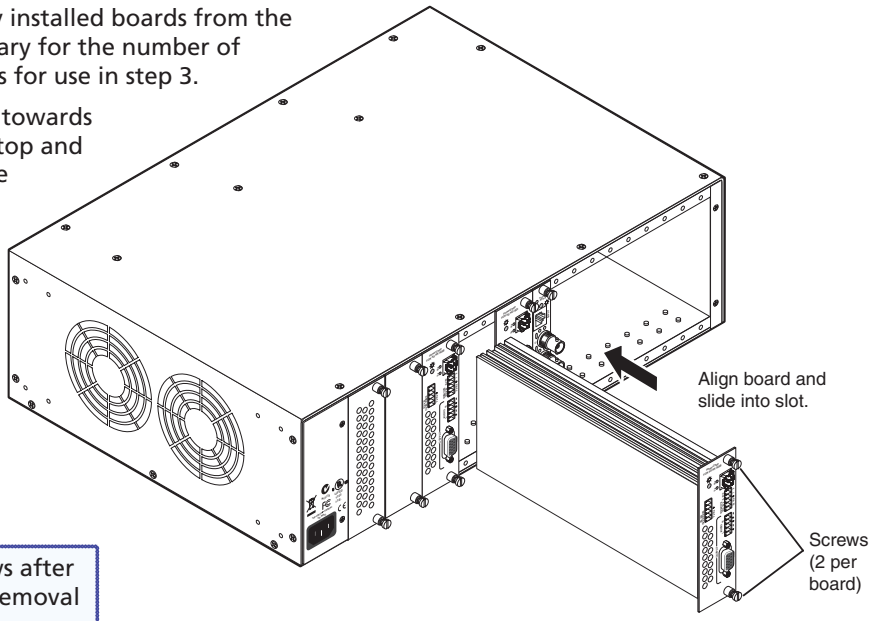



**Figure 1. Inserting Boards into the PowerCage Enclosure**

**e.** If desired, connect power to the enclosure and verify that the fans, boards, and LEDs power up correctly; then disconnect power.

(Continued on page 2)

## Step 2: Mount the enclosure to an equipment rack.

Attach the included mounting brackets to the sides of the enclosure, then fasten the brackets to the rack. The brackets can be attached at either the front or the back.

**CAUTION:** Leave open space of at least 1U on the top, bottom, and sides of the enclosure to allow adequate air circulation and prevent overheating. Do not cover the vents or fans.

## Step 3: Connect A/V and control cables.

Refer to the setup guides and user guides for the models of transmitter and receiver boards you are installing for details on how to cable and set up each board.

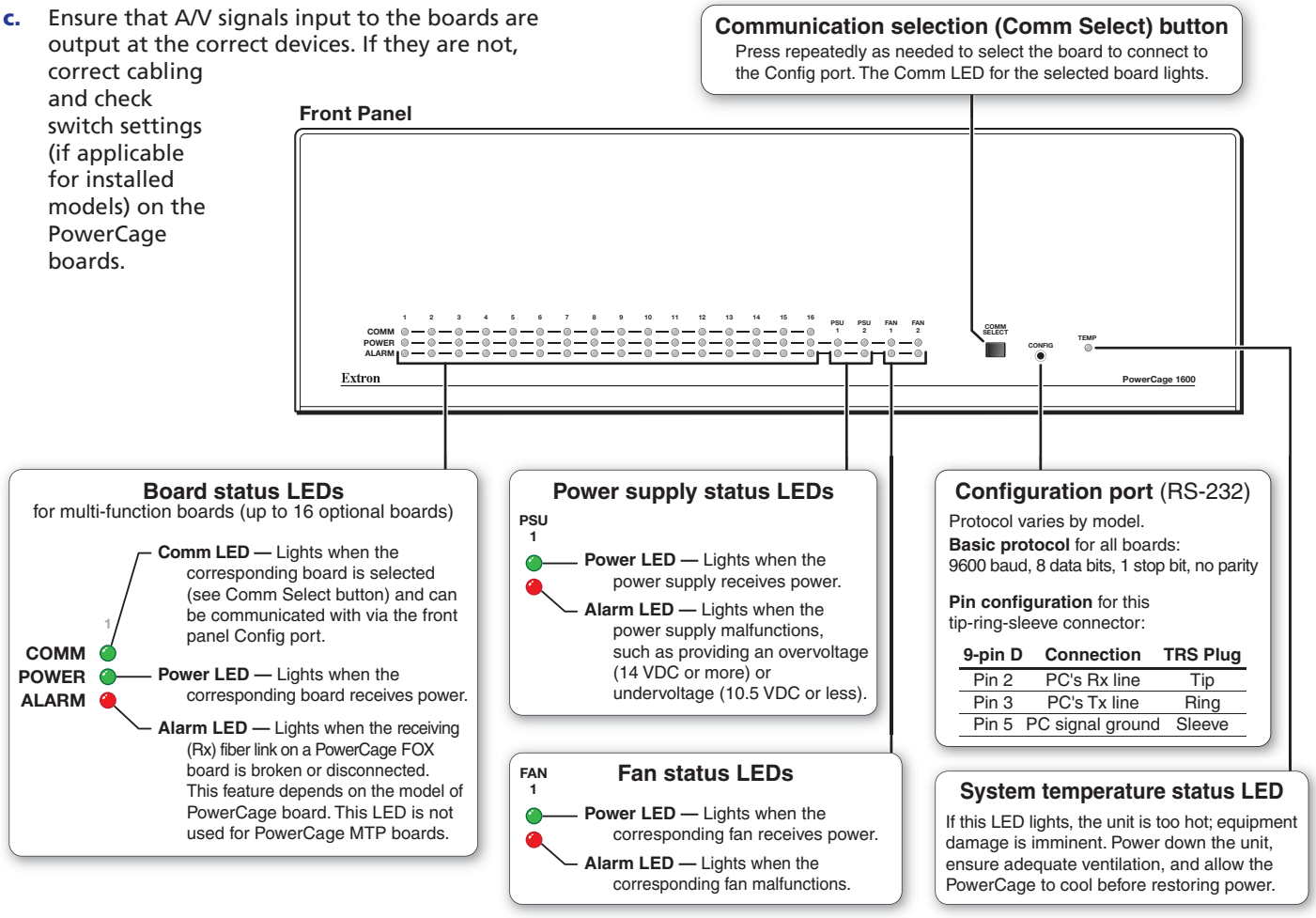
- Some fiber optic boards include pass-through RS-232 connections.
- Some boards have mode switches.
- Some MTP twisted pair boards include picture adjustment or peaking controls.

## Step 4: Connect power and test the system.

**a.** Connect power to the PowerCage enclosure and to the input and output devices.

**b.** Verify that the PowerCage fans, boards, and LEDs power up correctly. The green Power LED should be lit for each installed and securely seated power supply and fan. Press the Comm Select button and view the front panel: each time you press the button, the Power LED that corresponds to the currently selected, installed transmitter or receiver board should light.

**c.** Ensure that A/V signals input to the boards are output at the correct devices. If they are not, correct cabling and check switch settings (if applicable for installed models) on the PowerCage boards.





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